

# o Flame-retardant polycarbonate blend compositions

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 INVENTOR(S): Watanabe, Atsushi; Higano, Masanori; Nakajima, Masaki  
 PATENT ASSIGNEE(S): Denki Kagaku Kogyo Kk, Japan  
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AB Title compns. with good fire-resistance, thermal stability, and high impact strength comprise (A) thermoplastic resins contg. **polycarbonates**, (B) org. P compds. shown as P(O)(OPh)n(OC6H4R1a)3-n (R1 = alkyl; a = 1-5; n = 0-3), and optionally (C) silicones, fluoropolymers, and/or phenolic resins. Thus, Panlite K 1285 70, 28:72 acrylonitrile (I)-styrene (II) copolymer 15, a graft copolymer (prepd. from polybutadiene latex 50 as solid, II 37.5, and I 12.5 parts) 15, cresyl di-Ph phosphate 16, and Teflon 6J 0.2 part were melt-kneaded at 250-280.degree., pelletized, and injection-molded at 250.degree. to give test pieces showing UL-94 flame retardance V-0, Izod impact strength 79 kg-cm/cm (3.2-mm width), and no flash when molded with retention time of 5 min.

ST **polycarbonate styrene polymer blend** fire resistance; impact resistance **polycarbonate styrene polymer blend**; fireproofing agent phenyl phosphate **polycarbonate** compn; cresyl diphenyl phosphate fireproofing agent **polycarbonate**; heat resistance **polycarbonate styrene polymer blend**

IT Fireproofing agents  
 (Ph phosphates; **polycarbonate-styrene polymer blends** with good resistance to fire, heat, and impact)

IT **Polycarbonates**, properties  
 RL: POF (Polymer in formulation); PRP (Properties); USES (Uses)  
 (arom.; **polycarbonate-styrene polymer blends** with good resistance to fire, heat, and impact)

IT Heat-resistant materials  
 Impact-resistant materials  
 (**polycarbonate-styrene polymer blends** with good resistance to fire, heat, and impact)

IT Fluoropolymers, uses  
 Novolaks  
 Polysiloxanes, uses  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (**polycarbonate-styrene polymer blends** with good resistance to fire, heat, and impact)

IT Polymer blends  
 RL: POF (Polymer in formulation); PRP (Properties); USES (Uses)  
 (**polycarbonate-styrene polymer blends** with good resistance to fire, heat, and impact)

IT 42557-10-8, SH 200  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (SH 200; **polycarbonate-styrene polymer blends** with good resistance to fire, heat, and impact)

IT 9002-84-0, Teflon 6J 31900-57-9D, Dimethylsilanediol homopolymer, trimethylsilyl-terminated 176669-91-3, MEH 7800  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (**polycarbonate-styrene polymer blends** with good